

**SYSTEM AND METHOD FOR EFFICIENT**  
**ANALYSIS OF TRANSMISSION LINES**

**ABSTRACT OF THE DISCLOSURE**

5           A system and method for analyzing a circuit with  
transmission lines includes determining which sources  
influence each of a plurality of transmission lines, based  
on coupling factors. Transmission line parameters are  
computed based on the sources, which influence each  
10   transmission line. A transient response or frequency  
response is analyzed for each transmission line by  
segmenting each line to perform an analysis on that line.  
The step of analyzing is repeated using waveforms  
determined in a previous iteration until convergence to a  
15   resultant waveform has occurred.